

# Paper Title

Author Name<sup>1</sup> Author Name<sup>2</sup> Author Name<sup>3</sup>

<sup>1</sup>Department, University, Country, {name1,name3}@university.org  
Company, Country, name2@company.com

## Abstract

This template gives the guidelines on how to prepare a paper for submission to the Analytic Virtual Integration of Cyber-Physical Systems Workshop (AVICPS). Templates are available for both the LaTeX and the Microsoft Word environment. If there are any questions or suggestions regarding this template, please send an email to [davbr@berkeley.edu](mailto:davbr@berkeley.edu).

**Keywords** keyword1, keyword2

## 1. Introduction

### 1.1 Title and Authors

The title should be centered using font *Times New Roman* with size 17pt. Words should be capitalized in the title, e.g., "This is an Example of a Correct Title".

The author information should at least include name, affiliation (department, university, country). Addresses and emails are optional but strongly recommended.

### 1.2 Abstract and Keywords

The abstract should be written as one paragraph. It is not recommended to exceed 150 words.

Appropriate keywords describing the content of the paper should be supplied as a comma separated list.

### 1.3 Fonts

Use *Times New Roman* with font size 10pt for the body text. To emphasize a text or a word, use *italic font style*. For verbatim text, including code examples, use font Courier New with size 9.5pt.

### 1.4 Lists

Bullets should be created using style "*Bullets*", not standard bullets. For example:

- The first text item.
- The second text item.

Numbered items should be created using style "*Numbering*". For example:

1. The first text item.
2. The second text item.

## 1.5 Paragraphs

The first paragraph after each subsection is not indented. Use style "*Body Text First*".

The second and all other paragraphs within a section should be indented. Use style "*Body Text Indented*".

## 2. Section Headings

Section headings should be numbered. Words in the headings should be capitalized. Use style "*Heading 1*".

### 2.1 Sub-Section

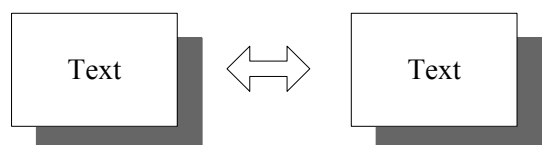
Subsections are numbered. Use style "*Heading 2 SubSection*".

#### 2.1.1 Sub-Sub-Section

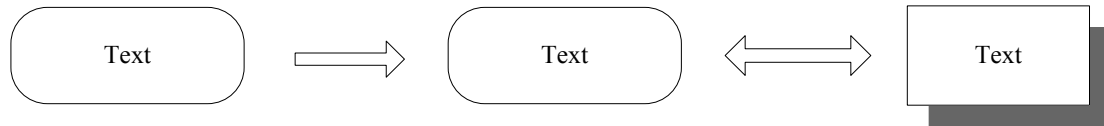
It is possible to use sub-sub-sections (style "*Heading 3; SubSubSection*"). If possible, however, use only sections and sub-sections.

## 3. Figures

Figures should be numbered and include a description text. All figures should be referenced within the body text using the capitalized word "Figure" followed by the figure number. For example, Figure 1 shows a figure located inside one column and Figure 2 illustrates how a figure can span over two columns.



**Figure 1.** An example of a figure that fits into one column.




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**Figure 2.** Another example of a figure that spans over two columns.

All figures should have a single line separating the figure and the caption text<sup>1</sup>.

#### 4. Bibliographic References

The bibliographic reference list should be shown at the end of the paper, starting with an unnumbered heading "*References*". The list of references should be sorted in alphabetic order according to the first author's surname.

Citations are stated within the body text using the number of the reference enclosed within brackets, e.g., [2]. If more than one reference is cited at the same place, the list should be sorted and within brackets, e.g., [1,3,4].

#### 5. Output Format

The paper should be submitted as a PDF-file using page size A4 (not US Letter!). All fonts should be included in the PDF-file.

Note: When using PDF-generators such as Adobe Acrobat PDF generator, remember to enable high-quality output. If this option is not enabled, figures and photos may be reduced in quality, resulting in poor quality when printed.

#### Acknowledgements

The templates and instructions were created by David Broman. The LaTeX template and related class file is based on ACM SIGPLAN templates created by Paul C. Anagnostopoulos. The LaTeX templates is allowed to be used in the AVICPS workshop with permission from SIGPLAN executive committee 2013. No other usage is permitted.

#### References

- [1] Iain S. Duff and John K. Reid. An Implementation of Tarjan's Algorithm for the Block Triangularization of a Matrix. *ACM Transactions on Mathematical Software*, 4(2):137–147, 1978.
- [2] Constantinos C. Pantelides. The Consistent Initialization of Differential-Algebraic Systems. *SIAM Journal on Scientific and Statistical Computing*, 9(2):213–231, 1988.
- [3] Benjamin C. Pierce. *Types and Programming Languages*. The MIT Press, 2002.
- [4] Gordon D. Plotkin. A Structural Approach to Operational Semantics. Technical report, Department of Computer Science, University of Aarhus, 1981.

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<sup>1</sup>Footnotes should be numbered and located at the bottom of the column.